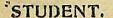
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AGNI-HOTRA

SUGGESTION FOR THE RESEARCH



ROFESSOR TARA (

PROFESSOR TARA CHAND, M.A.,

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PRINCIPLES OF THE ARYA SAMAJ:

- 1. God is the primary cause of all true knowledge, and of every thing known by its means
- 2. God is all truth, all knowledge, all beatitude. Incorporeal. Almighty, Just, Merciful, Unbegotten, Infinite, Unchangeable, without a beginning, Incomparable, the Support and the Lord of All, All-pervading, Omniscient, Imperishable, Immortal, Exempt from fear, Eternal, Holy and the cause of the Universe. To Him alone worship is due.
- 3. The Vedas are the books of true knowledge, and it is the paramount duty of every Arya to read or hear them read, to teach and preach them to others.
- 4. One should always be ready to accept truth and renounce untruth.
- 5. All actions ought to be done conformably to virtue, i. e., after a thorough consideration of right and wrong.
- 6. The primary object of the Samaj is to do good to the world by improving the physical, spiritual and social condition of mankind.
- 7. All ought to be treated with love, justice and due regard to their merits.
 - 8. Ignorance ought to be dispelled and knowledge diffused.
- None ought to be contented with his own good alone;
 but every one ought to regard his presperity as included in that of others.
- 10. In matters which affect the general social well-being of the Samaj, one ought to discard all differences and not allow his individuality to interfere, but in strictly personal matters every one may act with freedom.

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FOREWORD.

We publish this little but really suggestive pamphlet in the hope that it will attract some of the readers to take up the work of the exposition of the Agnihotra in earnest. Before the advent of Maharshi Dayananda people seem to have been attached to the performance of the Havano almost by blind faith, and although we cannot overlook the service that the blind faith has rendered in preserving the rite of the performance of the Agnihotra up to the time of Maharshi Dayananda, who really gave a new impetus to perform the rite, even to such people as had almost lost all faith in it, yet there is much to be done in the field of research to vindicate the position of the Vedas so clearly put in the Bhagwat Gita यज्ञात भवति पर्जन्यः "The yajna causes rain-clouds". Professor Tara Chand M. A., of the Gurukula, Kangri, in his learned article suggests the line upon which the work can be done, and really it is time now that some lover of the Vedas and the universal principles inculcated in them should undertake it.

ALLAHABAD:

12 July, 1915.

BALMUKUNDA.

PUBLISHER'S NOTE.

Prof. Tara Chand's very suggestive and illuminating essay has been before the Arya public since 1915. It is disappointing to see, however, that it has failed to evoke interest in the subject for which it was offered by the author. A second edition of it is being issued (the first having run out) in the hope that some enterprising student of science will undertake the work in right earnest and give it the attention which it deserves.

MEERUT.

15th Dec. 1927.

P. SARAN.

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AGNI-HOT

A SUGGESTION FOR THE RESEARCH STUDENT.

TIME there was when our young men looked down with contempt upon every thing past. The old ideals and the old customs were to them so many superstitions clinging to us as the remnants of a barbarous age. But through the efforts of the great revivalists like Dayananda Sarasvati, Swami Vivekananda and Ram Mohan Roy, through the research work done by the Savants both in India and abroad, times have changed. Our religious leaders and research scholars have taught us to respect the past, to look up on our ancient achievements with pride. Here is one scholar to tell us that when the other nations were ignorant of Chemistry our own people had their system so well developed as to include even a knowledge of Metallurgy. There is another working incessantly to give us an inkling into our achievements into the realms of Biological Sciences. Yet there is another trying to place before his countrymen the principles of our Sociology, Education and Economics.

Elphinstone believes our Surgery to be as remarkable as our Medicine. Professor Macdonnel tells us in the following words that we have been the teachers of the Europeans:— CC-0.Panini Kanya Maha Vidyalaya Collection.

"In Science, too, the debt of Europe to India has been considerable. There is in the first place the great fact that Indians invented the numerical figures used all over the world."

Tribute has been paid to our achievements in Astronomy and in Mathematics. We are told "Equally decided is the evidence that this excellence in Algebric analysis was attained in India independent of Foreign help."

"It must be admitted that the penetration shown by Bhaskaracharya in his analysis is in the highest degree ramarkable, that the formula which he establishes, and his method bear more than a mere resemblance—they bear a strong analogy—to the corresponding process in modern mathematical astronomy."

As in other branches of Science, so in Sanitation, we had our own theory and we had developed a detailed and careful system for keeping our houses and persons clean; for destroying germs of diseases and for averting a number of other calamities. This system has, too, been praised by some Westerners of note. Lord Ampthill, the former Governor of Madras, declared Manu to be one of the greatest sanitary reformers of the world. Colonel King wrote that the Hindu system of disinfecting houses was in accordance with the modern system of disinfection.

Of this system, the most important element is the Havan or Yajna. Though its value has been recognized by some name many hesitatey to believe in the

scientific efficacy of the *Havan*. We shall, in this article, briefly suggest our line of argument, for considering the *Yafna* as something based on scientificatheory. We shall be very happy if some abler mentake up our line of argument and collect more data for research work.

Before we develop our line of argument, we shall state why the performance of the *Haban* has been prescribed by the *Shastras*. On this subject no one might claim to speak with so much authority as did Swami Dayananda Saraswati. That great *Vedic* scholar and ardent admirer of every thing of ancient Aryavarta writes in his Magnum Opus—the Satyaratha Prakasha:—

"The scent (of sweet-smelling substances that are not put in fire but kept in the house) has not the power to rid the house of its impure air and replace it by pure air. It is fire alone which possesses that power, whereby it breaks up the impurities of the air and reduces them to their component parts, which getting lighter are expelled from the house and are replaced by fresh air from outside * * *. Yes, the amount of suffering a man inflicts on his fellow-beings by polluting the air and water with the waste products of his system and consequently bringing on disease, becomes the measure of his sin, to atone for which it becomes incumbent on him to do the Havan and thereby purify air and water to an extent equal to, and greater than, the mischief he has done".

The same renowned reformer writes at page 28 of the Rig Vedadi Bhashya Bhoomika, another of his most important works, to the following effect:—

"When we perform the Havan by pouring oblations of odoriferous substances in the fire, the air of the house getting attenuated on account of the fire, grows light and rises up. A vacuum is produced. On account of it pure air rushes in from all sides. The house containing pure air it (its inmates) becomes immune to disease."

The air associated with sweet-smelling particles, introduced in it by means of the *Havan*, goes up to purify and to increase the quantity of the rain water. On account of rain vegetables grow and become pure. This slowly adds to the happiness of the world: such is our certain belief."

The above views of the Swami have the high sanction of the Vedas

In the 8th mantra of the first chapter of the Yajur Veda, fire is represented as the divider into particles of all substances. In the 2nd and 3rd mantras of the same chapter the yajna is spoken of as the purifier of air and in the 12th its purifying power is compared to that of the sun.

The 19th mantra describes the yajna as the destroyer of Rakshasas as germs, the 20th mantra of the next chapter states that fire removes poisons from food materials.

The power of the yajna in causing rain is described in the 13th, 21st and 25th mantras of the first chapter.

Thus it will appear that the *Haban* is performed (1) to attenuate air to help ventilation; (2) to purify air and destory poisonous germs present in it; and (3) to bring down seasonable and abundant rain.

Not only is the yajna represented as serving these three purposes, but theories as to how these objects are realized are found in ancient books. With our present knowledge we cannot say if any theory in support of ventilation is found in the ancient books. But Swamiji's statement regarding it is very clear and it is well known that all of Swamiji's theories are derived from the ancient books.

In connection with the second object of the Havan, it is necessary to show that the Vedas and other Aryan books clearly and distinctly speak of disease organism. For unless there are germs there can be no yajna to destroy them. Now we have translated somewhere the word Rakshas into germ. Is this the real meaning of the word? Is the common notion of Rakshas an after-addition, a mythological accretion brought on through misinterpretation and misunderstanding? Indeed it is so.

Many quotations can be cited in support of this. But we shall content ourselves with a few only. In the Shatapatha Brahmana (XIV, 4) the officiating priest is required to shake off the black antelope-skin saying at the same time "Rakhsas are removed; enemies are destroyed." This shaking off he is desired to do aside (so as the impurity may not fall again into sacrificial vessels). It is further stated that by shaking this all the impurity is removed. In another place (Rig. VIII, v. 9) it is written:—

"A Brahmin who possesses a vast collection of medicines is called *Bhishma*. Thoraby he is the killer of *Rakshusas* and the remover of diseases."

Some of the synonyms for Rakshus such as Naktamchar and Nishachar show that these germs are lovers of darkness. The synonyms like Khechar (moving in sky), Gochar and Mahichar (living on earth) and a mantra of the Yajur Veda lead us to believe that these organisms are widespread. Their names like Bhishma (terrible), Kala (fate), Ghora (causing fear) establish their dangerous character both to man and beast. That they are called Prabhava (growing in abundace) is a clear proof that their prolificness was very well known to the ancients. The Atha-ba Veda (II, 37, 2) states that the disease organisms are both visible, whereas the fourth matura of the same Prapathaka says that they can live in bowels, head and neck of man. The Yajura Veda (XVI, 32) says that they enter body through food and drink.

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In the Atharba Veda (XII, 3. 15; IV, 3. 2; IV. 1. 6, etc.) it is stated that their organism can be destroyed by means of certain plants, strong smell of certain herbs and by (the use of) conch-shell. From what we have stated it is clear that the Vedas believe in the germ theory and states that the germs can be destroyed by strong odours of certain herbs. The Atharba Vedu (I, 13. 1 and X, 16, 1. 1) states that these germs are destroyed by fire or electricity. Thus the disinfection theory summarized would mean that the high temperature and strong odours made powerful and subtly extended by means of vafaa destroy the germs in air etc.

We are told (the Yajur 1.25) that the special substances burnt in the fire rise up to the clouds and these with the help of the rays of the sun make the clouds pour down showers and the bright rays of the sun also rain down.

In connection with this it might be stated that in the Brahmanas there is described a special yajna called the Kariri (Lit., means of controlling the clouds.) Further in the Vedas in many places it is stated that the particles of the substances burnt help in bringing down rain by means of producing great electric force in the heavens.

Interesting and appealing as these theories are, yet more interesting and appealing are the various and numerous details in connection with yajnas. These details very strongly suggest that the whole

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system of yajna was based on some scientific principles whose significance has come to be forgotten by its devotees.

The first point in this connection is the shape and size of the various kundas (stoves) used for the purpose of different yajnas. Their forms and sizes vary with yajnas performed for various purposes and with the quantity of the material to be burnt.

A detailed description of these may be found in the Taitreya Samhita and the Apastambha and other Sutras. Some of these kinds were in the shape of certain birds, others resembled a tortoise in form, and yet others followed perfect geometrical patterns, like equilateral triangles, etc. The size of some of these was very great: for instance, Chaturashyayana kunda is said to have an area equal to a square whose side was seven and a half times the height from the heels of a man to the tip of the fingers of his hand when he held his arm vertically up.

Next, we are told, that every kind of fuel should not be used for the yajna. For instance, the Shatapatha Brahaman says: "Indeed they should be of Palasa wood (Butea Frondosa): for the Pulasa tree, doubtless, is the Brahaman and Agni also is Brahaman. For this reason Agni should be of Pulasa wood. Should he be unable to procure them of Palasa wood, they may be of Vikankata wood (Flacourtia Sapinda), etc. (I,iii.3.19.)"

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Similarly the Gobbilga Gribya Sutres (I, v. 20. 15) mention the special kinds of woods to be used in the yajna. The woods that are recommended for the yajna are all not to be indifferently used in every yajna. Different yajnas require different kinds of fuel. The size and the number of pieces of wood to be burnt in a particular yajna is fixed. These pieces of wood of a particular size are further to be arranged and piled in a different fashion for different yajnas. All this must have some meaning. We believe that this is done in order to regulate the amount of heat and temperature as well as to secure its proper distribution, so that the changes should take place at proper intervals.

The same object is also served by the repetition of the manters which, according to the Apasthamba (Yajna Paribhasa Sutras, xlv), state the nature and purpose of the sacrificial act and also serve to indicate the time at which the oblation is to be poured.

The substances to be burnt at different sacrifices are different. There are many elaborate details in this connection. We shall give a few of them here. The Gobhilya (III, 7. 7 and 18. 19) in connection with the Shravana ceremony writes. "He puts a dish on the fire and fries one handful of barley-grain without burning them. * * In the evening boiled rice-grains with milk (are prepared), of that he should make oblations * * *" For the full moon day

ceremony the same writer prescribes the same mess (III, 8.1) whereas in connection with Apupashtaku ceremony he writes. "Having prepared grains in the way prescribed for Sthalipakas he cooks (them into a) charu and (prepares) eight cakes * * * (III, 10.10.)"

There are a number of yojnas for curing diseases and in these yajnas the quantity and quality of these oblations varies with the disease. In the vaina for curing certain disorders of the embryo, 800 oblations of the decoction prepared from a mixture of dried ginger and milk, are poured in the yaqua fire along with oblations of ghee-(The Satadharma Parcharak of the 3rd Phalguna 1968). For consumption, Dhup Buttis (incensed sticks) prepared from sandal, camphor, flowers, etc., are to be burnt and 1,000 oblations of pure cow ghee are to be offered on the first day. On the 2nd, 3rd and 4th, 1,000 oblations of sesamum, rice, fresh grass (Duron), barley and oats well mixed up with honey and ghee are to be offered. On the following two days oblations of cow's ghee and honey and on the 7th and 8th day the sticks of peepul and Achyranthes aspera well greased with ghee are to be burnt.

To free a country from an epidemic, one lac oblations of boiled rice mixed with sesamum are recommended.

For this purpose are also recommended cow's butter (clarified), sesamum, rice, milk, fresh grass, Achyranthus aspera, and several other things. That different substances should be used for different yajnas

can not be an outcome of superstition or an accident. It surely points to some science whose principles we are not able to grasp at present.

As regards the properties of the substances necessary for various yajnas, we might say a few words. Musk is described by the writer of the Raja Nighantu, as a substance which in its pure state when thrown on fire breaks up into small particles without burning.

Of it, the Encyclopedia Brittanica (p. 90) says:—
"A grain of musk will distinctly scent millions of
cubic feet of air without any appreciable loss of
weight and its scent is not only more penetrating but
more persisting than that of any other known substance."

Camphor is another substance commonly used for yajnas. The Cyclopedia states that "Camphor and some volatile oils have been employed as air disinfectants, but their virtue lies in masking and not destroying noxious effluvia."

William Whitelaw's Pharmacy (p. 347) states "the vapour is represented to produce marked offects upon catarrhal affections of respiratory membranes."

Saffron is said to be an antidote (the Raja Nighantu) and a germicide (the Bhava Prakash). Its pills are said to be kept in Persia for easy parturition.

Nutmeg and mace both are said to contain a certain volatile oil evaporating at 160° and 165° respectively. Both are said to be germicides (the Bhava Prakash). The former is also said to be a destroyer

of bad odour and the letter an antidote (the Bhava Prakash). Ghoe is indispensable for the yajna. The Sushruta recommends it for long life and strong memory. The same book also states that it is a destroyer of the Rukshasas and poison.

Of cocoanut the Encyclopedia Brittanica says that it contains an oil of disagreeable odour from the presence of volatile fatty acids. The plam date is recommended by the Bluva Prakash as an antidote against wine poisons.

Before concluding this article we shall show how far the modern researches and experience support to the theory of controlling clouds and destroying germs by means of the Havan. The following on the production of rain is taken from the Encyclopedia Brittanica (11th edition):-"The laborious observations of C. T. R. Wilson of Cambridge, England, probably give us our first current idea as to the molecular processes involved in the formation of rain. After having followed up the methods inaugurated by Aitken showing that the particles of dust floating in the air, no matter of what they may be composed, became by preference the nuclei upon which the moisture begins to condense when air is cooled by expansion, Wilson then showed that in absolutely dustless air, having therefore no nuclei to facilitate condensation, the latter could only occur when the air is cooled to much greater extent than in the case of the presence of dust. More remarkable,

still, he showed that dustless air having no or probable nuclei, acquired such nuclei when a beam of ultra-violet light of the Rontgen rays, or tho Uranium radiation, or of ordinary sun-light was allowed to pass through the meist air in his experimental tube. In other words, their rays produce a change in the mixed gas and vapour similar to the fermation of nuclei. The nuclei thrown in the experimental tube by the discharge of electricity from a pointed metal wire produced very dense fogs by means of expansions slightly exceeding those required for ordinary dust. Finally, Wilson has been able to show that when dust particles are electrified negatively their tendency to condense vapour upon themselves as nuclei is much greater than when they are electrified positively.

At this point we come in contact with views developed by J. J. Thompson as to the nature of electricity and the presence of negative and positive nuclei in the atmosphere. According to him: "In the ionization of gas by Rontgen or Uranium rays, the evidence seems to be in favour of the view that not more than one corpuscle can be detached from any one atom. Now the ions by virtue of their negative charges act as nuclei around which drops of water condense when moist dust-free air is suddenly expanded.

If the reader tries to read this in connection with the theory of producing rain in the Vedus, he would find striking similarity between the two theories. Probably by means of the *Havan*, we are able to introduce in the atmosphere such particles as are negatively charged themselves, or as help in bringing about the ionization of atmospheric gases (the *Veda* asserts that the *Havan* first feeds electricity and then produces rain) or as serve the mechanical purpose of acting as nuclei to condense rain water.

There is not only close resemblance between theories of the East and the West, but besides, a mass of religious tradition and experience shows that rain can be produced by means of yrjun. Our own town of Shikarpur has three times caught a terrible fire. All the three times fire burnt down shops of grocers and sellers of dry fruit. Now the articles in which these two classes deal are those usually used in the yajun. We distinctly remember that on all these three occasions thick clouds appeared in the skies but owing to adverse winds, caused no doubt by the fire, which unlike the Huvan fire was not under man's control, the clouds swept across the skies.

Professor Balkrishna of the Gurukuta Vishvavidyalya, in a learned article on the subject (the Vedic Magazine, V, 7. 21) writes: "In the last rainy season Agni hotras were performed for the express purpose of bringing down rain in the Gurkula Bhumi, Delhi Jhang; Lahore, Bombay and some other towns and rain did fall in these places".

As for the disinfecting power of the Havan we give two quotations, one from the Indian Review of April .

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1912, and another from the Arya Patrika of 7th May 1914. The Indian Review note which runs as under shows that the theory of disinfecting by means of the Havan is in one respect at least supported by one of the latest discoveries of Science—

"In a very learned discourse on Empiricism and Science which formed the leading article of the Jioneer of the 6th September, there occurred the following statement: "So, too, the theory that fires in public places tended to diminish epidemics was a theory based upon rough empirical observations. It was connected with the discovery—a very notable one in the progress of Humanity—that fumigation prevents the decay of animal substances. That was probably a purely accidental discovery, and it was only in our time and in the West that it was found by patient experiments that the effect of smoke is antiseptic, or in other words, that there is something in wood smoke that is fatal to the germs that cause decomposition."

M. Trillat finds that the rapid combustion of considerable quantities of sugar produces vapours of formic aldehyde—a powerful germicide. This antiseptic exists in the smoke of most wood fires. In 2 lbs of fuel, pine wood contains 32 centigrams of aldehyde, oak wood 35 centigrams, refined sugar 70 centigrams, and ordinary incense 18 centigrams. The fires during epidemics therefore had a direct physical and chemical action in addition to the moral effect of enabling people to do something to release them—CC-0.Panini Kanya Maha Vidyalaya Collection.

selves from hopoless and terrorised inaction! So the Homa of ancient India was not for nothing.

The Arya Patrika quotes from the late Rai Bahadur Baijnath. The learned writer says: "Thus for the higher classes of Hindus, I suggest the reversion to the daily Homa ceremony of their ancestors as an effective preventive against plague. It has been proved from experience that houses in localities badly infected with plague were free from disease, if the immates daily performed the Havan. The ingredients employed are all well known disinfectants and germicides, and I should suggest its adoption by all Hindus

In conclusion, we state that as the theories of the ancient Hindus and the Modern Scientists agree very closely, as the different items, processes and implements of the rajna are given in the Shastras in great details and as these details are explainable on scientific grounds, the yajua has behind it important and great laws of a science that appears to have been lost and that it can be rescued from total oblivion if sufficient care and labour is bestowed upon research work Let us hope that some of our patriotio countrymen would come forward and take up the subject for study. In our opinion the study of this subject should from an important mite in the programme of the Arya Samaj, and we trust the Gurukula authorities, with the help of the learned Professors of the institution, will do some thing substantial in the matter. CC-0.Panini Kanya Mana Vidyalaya Collection.

APPEAL.

Among the many Indian movements which constitute our country's Renaissance the share of the Arya Samaj is very considerable. Indeed it may be said without exeggeration that the scope of its social services is not parallelled by any other modern movement. The main plank of The Arya Samaj as expounded by its great founder is that it bases all its program of life on the bed-rock of the Vedas, which are at the present time, perhaps the least known and the least studied among the whole body of spiritual literature. It should be the primary duty of every Arya to read and understand the Vedas and to teach and explain them to others. The great Rishi enjoined upon us all the sacred duty of dispelling darkness and ignorance from the world and disseminating light and culture. But what have we done to acquit ourselves of the great debt we owe to the Rishi? It must be frankly confessed that in the matter of interpretting and explaining the Vedas and Vedic lore in order to make it accessible to the ordinary run of people, and in bringing out a useful kind of literature the Arya Samaj has shown a very diplorable indifferance. The result is that though the Arya Samaj has to its' credit an active life of half a century, it has failed, in U. P at least, to produce any respectable quantity of literature, after the great literary productions of Swami Dayanand himself. We have only a few books and pamphlets of scholarly merit. The need of sound, suggestive and thoughtful literature cannot be too highly impressed. It is indispensable for every movement which aspires to be progressive. I therefore take this oppositunity of appealing to all my

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Aryan brethren, in the name of the sacred debt we owe to the Vedic culture, to fill up this great gap and thus help in the spreading of Vedic culture in the world. It is with a view to disseminate the vedic teachings and encourage the growth of religious and social literature that the A. P. Sabba has started its Tract and Publication department. Those who can write or translate good books are invited to contribute books and pamphlets. The Sabha will print and publish them. But there is another need which is equally great, viz, funds. The Tract department is the poorest of all the departments of the A. P. Sabha. If a permanent fund of Rs. 50000/- could be collected the work of publication can be run smoothly. It may be strongly hoped that the self-sacrifleing Arya Samajists will not see this most importtant agency of their propaganda die of inanition. special occasions and ceremonies, while giving other donations, they will remember the Tract department also, they will materially help the cause of Dharmic reform.

Parmatma Saran M. A.

Superintendent Tract Department,

A. P. Sabha, Meerut.

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